

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

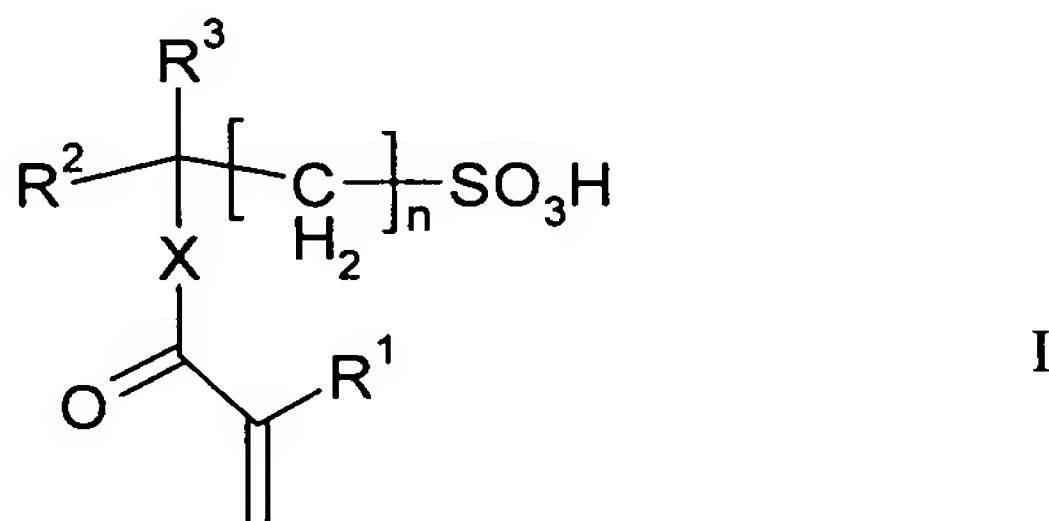
Listing of Claims:

Claims 1-23 (Cancelled).

Claim 24 (New): An active compound formulation comprising

- a) at least one active compound chosen from the group of fungicides
- b) at least one random radical copolymer formed from the monomers i), ii) and optionally additional monomers, in which

- i) is at least one olefinically unsaturated sulfonic acid of the formula I



in which

n is 0 to 10

X is O or NR⁵

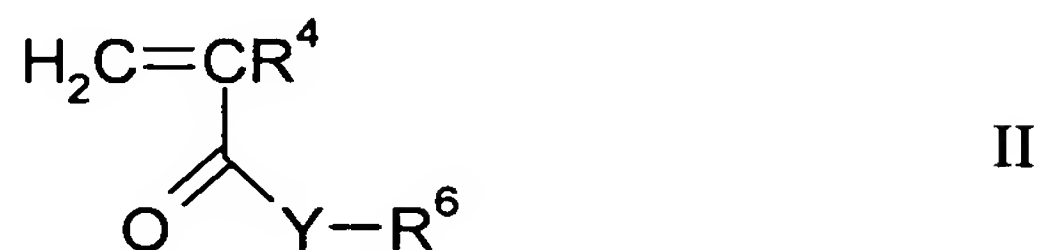
R¹ is hydrogen or methyl

R², R³ are, independently of one another, hydrogen or C₁-C₆-alkyl

R⁵ is hydrogen, alkyl, aryl, alkylaryl, arylalkyl, alkoxyalkyl, aryloxyalkyl, alkoxyaryl, hydroxyalkyl, (di)alkylaminoalkyl, (di)alkylaminoaryl, (di)arylaminomethyl, alkylarylaminomethyl, or alkylarylaminomethyl, it being possible for the aryl radicals to be substituted,

or salts thereof or mixtures of acid and salts, and

- ii) is at least one olefinically unsaturated monomer of the formula II



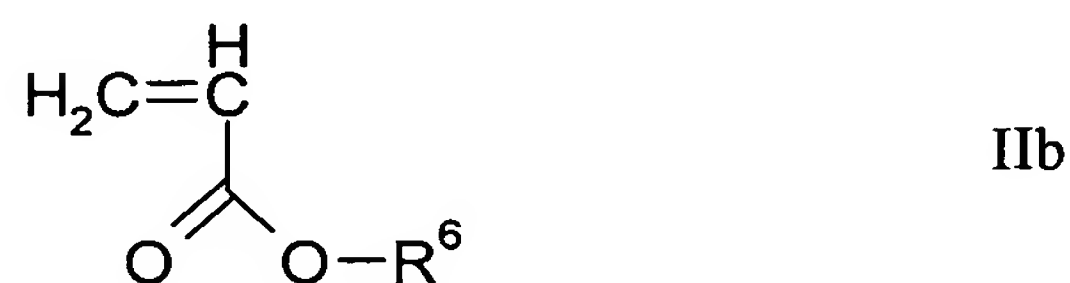
in which

Y is O or NR⁵,

R⁴ is hydrogen or methyl,

R⁵, R⁶ are hydrogen, alkyl, aryl, alkylaryl, arylalkyl, alkoxyalkyl, aryloxyalkyl, alkoxyaryl, hydroxyalkyl, (di)alkylaminoalkyl, (di)alkylaminoaryl, (di)arylaminomalkyl, alkylarylaminomalkyl or alkylarylaminomaryl, it being possible for the aryl radicals to be substituted,

in which at least one olefinically unsaturated monomer ii) corresponds to the formula IIb,



in which R⁶ is alkyl, aryl, alkylaryl, arylalkyl, alkoxyalkyl, aryloxyalkyl, alkoxyaryl, hydroxyalkyl, (di)alkylaminoalkyl, (di)alkylaminoaryl, (di)arylaminomalkyl, alkylarylaminomalkyl or alkylarylaminomaryl, it being possible for the aryl radicals to be substituted,
and

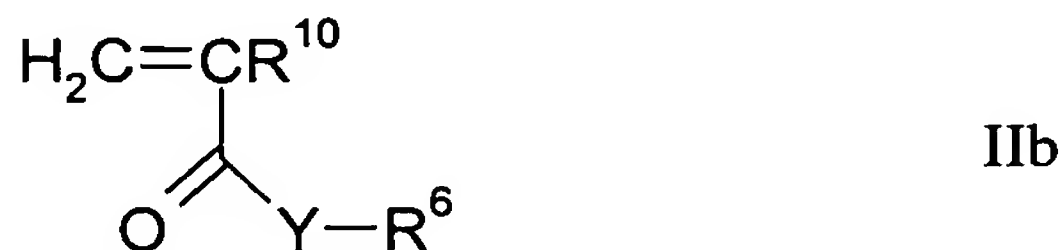
c) optionally additional additives.

Claim 25 (New): The active compound formulation according to claim 24, wherein the at least one random radical copolymer is formed from

i) at least one olefinically unsaturated sulfonic acid of the formula I according to claim 24 or salts thereof or mixtures of acid and salts,

ii) phenoxyethyl acrylate,

iii) optionally additional olefinically unsaturated monomers of the formula IIb



in which

Y is O or NR⁵,

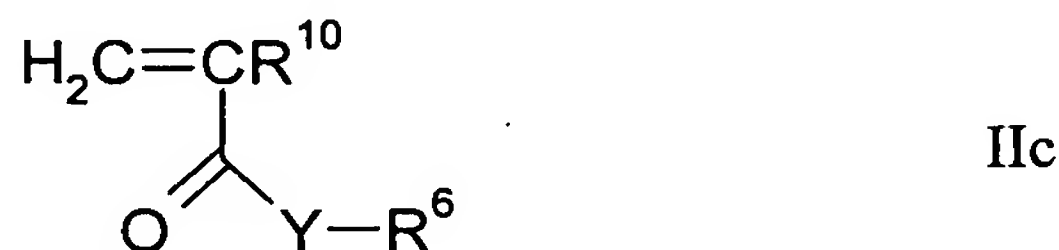
R¹⁰ is hydrogen or methyl,

R⁵, R⁶ are hydrogen, alkyl, aryl, alkylaryl, arylalkyl, alkoxyalkyl, aryloxyalkyl, alkoxyaryl, hydroxyalkyl, (di)alkylaminoalkyl, (di)alkylaminoaryl, (di)arylaminomalkyl, alkylarylaminomalkyl or alkylarylaminomaryl, it being possible for the aryl radicals to be substituted.

Claim 26 (New): The active compound formulation according to claim 24, wherein the monomer i) is 2-acrylamido-2-methyl-1-propanesulfonic acid or a salt thereof or a mixture of acid and salt thereof.

Claim 27 (New): The active compound formulation according to claim 24, wherein the at least one random radical copolymer is formed from

- i) 2-acrylamido-2-methyl-1-propanesulfonic acid or salts thereof or a mixture of acid and salt thereof
- ii) phenoxyethyl acrylate
- iii) at least one olefinically unsaturated monomer of the formula IIc



in which Y is O

R¹⁰ is hydrogen or methyl,

R⁵, R⁶ are hydrogen, alkyl, aryl, alkylaryl, arylalkyl, alkoxyalkyl, aryloxyalkyl, alkoxyaryl, hydroxyalkyl, (di)alkylaminoalkyl, (di)alkylaminoaryl, (di)arylaminomalkyl,

alkylarylaminooalkyl or alkylarylaminooaryl, it being possible for the aryl radicals to be substituted.

Claim 28 (New): The active compound formulation according to claim 24, wherein the at least one random radical copolymer is formed from

- i) 2-acrylamido-2-methyl-1-propanesulfonic acid or salts thereof or a mixture of acid and salt, and
- ii) phenoxyethyl acrylate.

Claim 29 (New): The active compound formulation according to claim 24, wherein the proportion of the sulfonic acid or of a salt or of a mixture of acid and salt in the total weight of the copolymer is 10 to 90 percent by weight.

Claim 30 (New): The active compound formulation according to claim 24, wherein the proportion of the sulfonic acid or of a salt thereof or of a mixture of acid and salt in the total weight of the copolymer is 30 to 70 percent by weight.

Claim 31 (New): The active compound formulation according to claim 24, wherein the ratio of the proportion by weight of component a) to the proportion by weight of component b) ranges from 1:10 to 10:1.

Claim 32 (New): The active compound formulation according to claim 24, wherein the ratio of the proportion by weight of component a) to the proportion by weight of component b) ranges from 1:4 to 4:1.

Claim 33 (New): The active compound formulation according to claim 24, wherein the ratio of the proportion by weight of component a) to the proportion by weight of component b) ranges from 1:2 to 2:1.

Claim 34 (New): The active compound formulation according to claim 24, wherein the at least one active compound is chosen from the group of strobilurins.

Claim 35 (New): The active compound formulation according to claim 34, wherein the at least one active compound is pyraclostrobin.

Claim 36 (New): The active compound formulation according to claim 24, in solid form.

Claim 37 (New): The active compound formulation according to claim 24, in the form of a fluid solution comprising, if appropriate, additional additives.

Claim 38 (New): The active compound formulation according to claim 24, in the form of an aqueous dispersion comprising, if appropriate, additional additives.

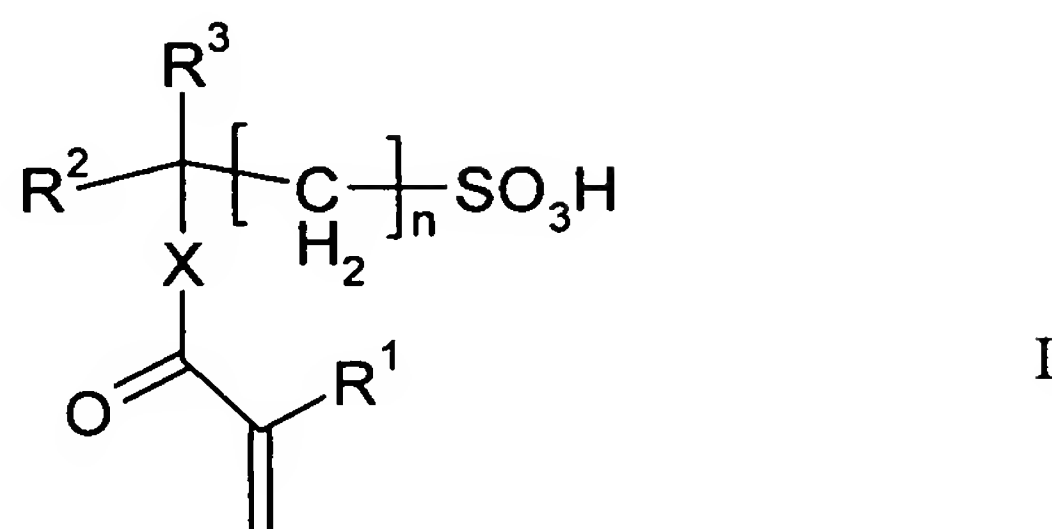
Claim 39 (New): The active compound formulation according to claim 38, wherein the average particle diameter, determined by quasielastic light scattering, is less than 1 micrometer.

Claim 40 (New): The active compound formulation according to claim 39, wherein the average particle diameter, determined by quasielastic light scattering, is less than 300 nanometers.

Claim 41 (New): The active compound formulation according to claim 40, wherein the average particle diameter, determined by quasielastic light scattering, is less than 100 nanometers.

Claim 42 (New): A process for the preparation of aqueous dispersions, which comprises bringing an active compound formulation comprising

- a) at least one active compound chosen from the group of fungicides
- b) at least one random radical copolymer formed from the monomers i), ii) and optionally additional monomers, in which
 - i) is at least one olefinically unsaturated sulfonic acid of the formula I



in which

n is 0 to 10

X is O or NR⁵

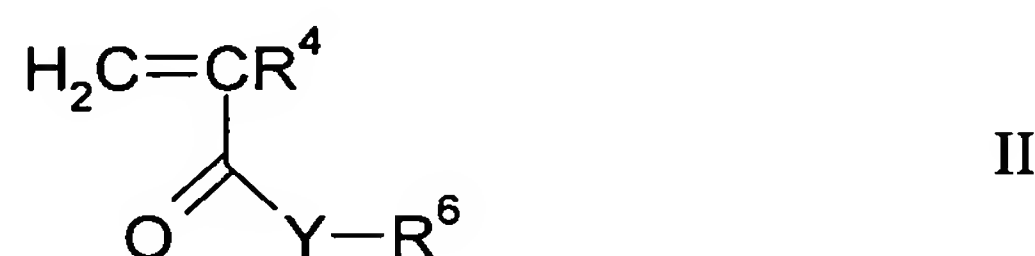
R¹ is hydrogen or methyl

R², R³ are, independently of one another, hydrogen or C₁-C₆-alkyl

R⁵ is hydrogen, alkyl, aryl, alkylaryl, arylalkyl, alkoxyalkyl, aryloxyalkyl, alkoxyaryl, hydroxyalkyl, (di)alkylaminoalkyl, (di)alkylaminoaryl, (di)arylaminomalkyl, alkylarylaminomalkyl, or alkylarylaminomaryl, it being possible for the aryl radicals to be substituted,

or salts thereof or mixtures of acid and salts, and

ii) is at least one olefinically unsaturated monomer of the formula II



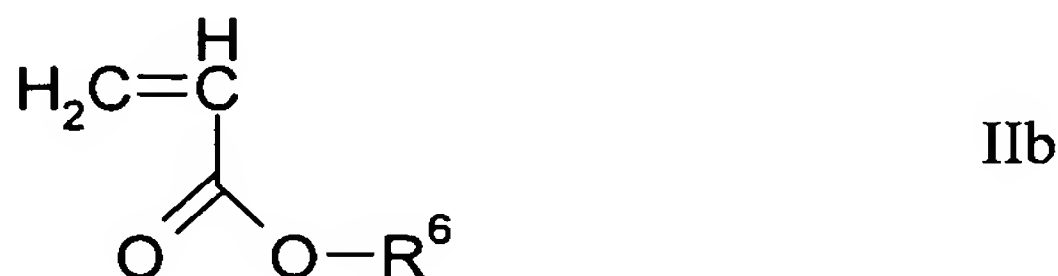
in which

Y is O or NR⁵,

R⁴ is hydrogen or methyl,

R⁵, R⁶ are hydrogen, alkyl, aryl, alkylaryl, arylalkyl, alkoxyalkyl, aryloxyalkyl, alkoxyaryl, hydroxyalkyl, (di)alkylaminoalkyl, (di)alkylaminoaryl, (di)arylaminomalkyl, alkylarylaminomalkyl or alkylarylaminomaryl, it being possible for the aryl radicals to be substituted,

in which at least one olefinically unsaturated monomer ii) corresponds to the formula IIb,



in which R^6 is alkyl, aryl, alkylaryl, arylalkyl, alkoxyalkyl, aryloxyalkyl, alkoxyaryl, hydroxyalkyl, (di)alkylaminoalkyl, (di)alkylaminoaryl, (di)arylaminomethyl, alkylarylaminoalkyl or alkylarylaminoaryl, it being possible for the aryl radicals to be substituted,
and

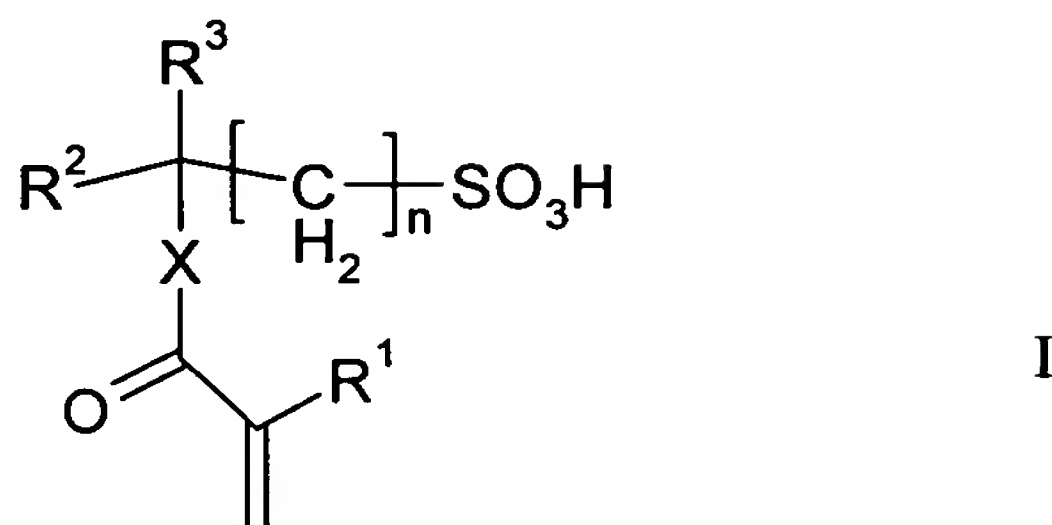
c) optionally additional additives,
if appropriate with addition of one or more additives, into contact with an aqueous system and conventionally dispersing.

Claim 43 (New): The process according to claim 42 wherein the at least one active compound is pyraclostrobin.

Claim 44 (New): A process for the preparation of an active compound formulation comprising

a) at least one active compound chosen from the group of fungicides
b) at least one random radical copolymer formed from the monomers i), ii) and optionally additional monomers, in which

i) is at least one olefinically unsaturated sulfonic acid of the formula I



in which

n is 0 to 10

X is O or NR⁵

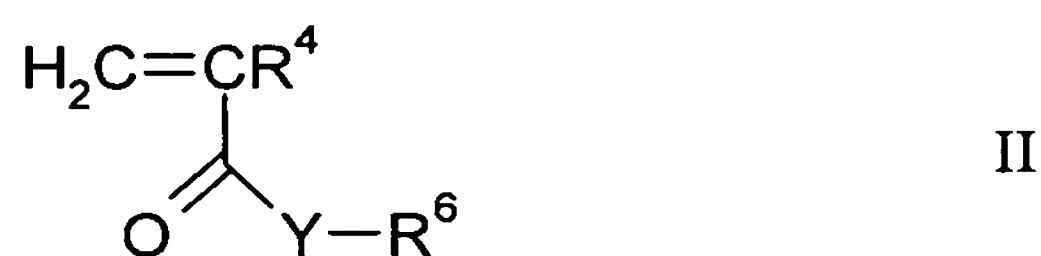
R¹ is hydrogen or methyl

R², R³ are, independently of one another, hydrogen or C₁-C₆-alkyl

R⁵ is hydrogen, alkyl, aryl, alkylaryl, arylalkyl, alkoxyalkyl, aryloxyalkyl, alkoxyaryl, hydroxyalkyl, (di)alkylaminoalkyl, (di)alkylaminoaryl, (di)arylaminomalkyl, alkylarylaminomalkyl, or alkylarylaminomaryl, it being possible for the aryl radicals to be substituted,

or salts thereof or mixtures of acid and salts, and

ii) is at least one olefinically unsaturated monomer of the formula II



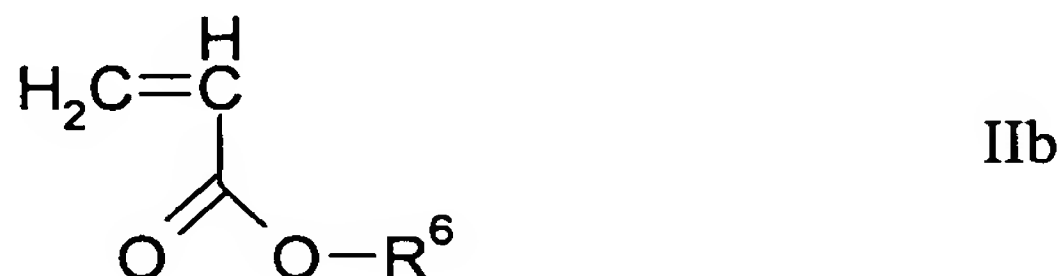
in which

Y is O or NR⁵,

R⁴ is hydrogen or methyl,

R⁵, R⁶ are hydrogen, alkyl, aryl, alkylaryl, arylalkyl, alkoxyalkyl, aryloxyalkyl, alkoxyaryl, hydroxyalkyl, (di)alkylaminoalkyl, (di)alkylaminoaryl, (di)arylaminomalkyl, alkylarylaminomalkyl or alkylarylaminomaryl, it being possible for the aryl radicals to be substituted,

in which at least one olefinically unsaturated monomer ii) corresponds to the formula IIb,



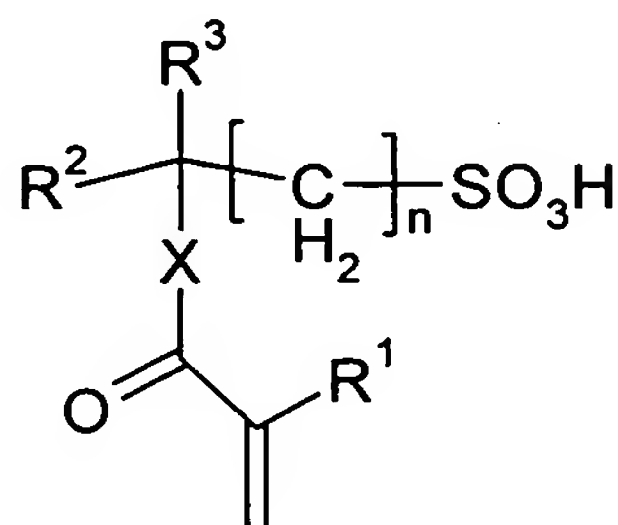
in which R^6 is alkyl, aryl, alkylaryl, arylalkyl, alkoxyalkyl, aryloxyalkyl, alkoxyaryl, hydroxyalkyl, (di)alkylaminoalkyl, (di)alkylaminoaryl, (di)arylaminomethyl, alkylarylaminoalkyl or alkylarylaminoaryl, it being possible for the aryl radicals to be substituted,
and

c) optionally additional additives,
which process comprises dissolving the components a) and b) and if appropriate c), and optionally additional additives, separately from one another, in identical or different organic solvents and mixing the solutions with one another
or preparing a combined solution of the components a) and b) and if appropriate c), and optionally additional additives, by presenting one of the components dissolved in an organic solvent, adding the additional components and dissolving,
and optionally subsequently removing the solvent in a conventional way to the greatest possible extent.

Claim 45 (New): The process according to claim 44 wherein the at least one active compound is pyraclostrobin.

Claim 46 (New): A process for the preparation of an active compound formulation comprising

- a) at least one active compound chosen from the group of fungicides
 - b) at least one random radical copolymer formed from the monomers i), ii) and optionally additional monomers, in which
- i) is at least one olefinically unsaturated sulfonic acid of the formula I



I

in which

n is 0 to 10

X is O or NR⁵

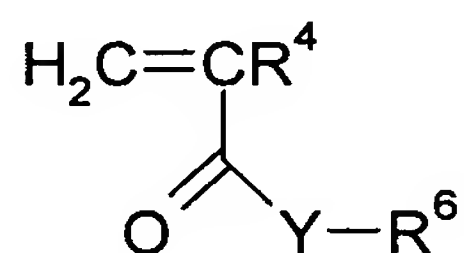
R¹ is hydrogen or methyl

R², R³ are, independently of one another, hydrogen or C₁-C₆-alkyl

R⁵ is hydrogen, alkyl, aryl, alkylaryl, arylalkyl, alkoxyalkyl, aryloxyalkyl, alkoxyaryl, hydroxyalkyl, (di)alkylaminoalkyl, (di)alkylaminoaryl, (di)arylaminomalkyl, alkylarylaminomalkyl, or alkylarylaminomaryl, it being possible for the aryl radicals to be substituted,

or salts thereof or mixtures of acid and salts, and

ii) is at least one olefinically unsaturated monomer of the formula II



II

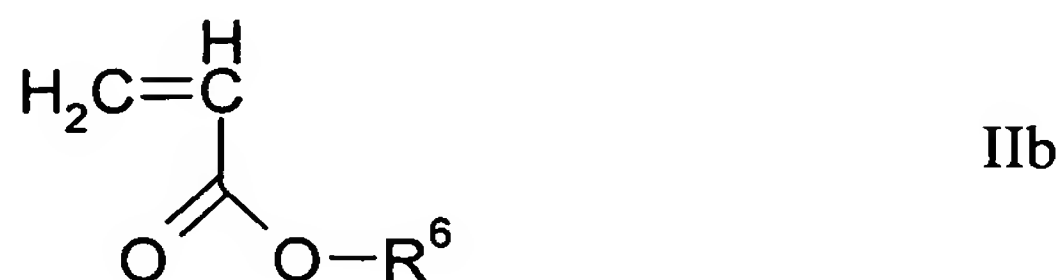
in which

Y is O or NR⁵,

R⁴ is hydrogen or methyl,

R⁵, R⁶ are hydrogen, alkyl, aryl, alkylaryl, arylalkyl, alkoxyalkyl, aryloxyalkyl, alkoxyaryl, hydroxyalkyl, (di)alkylaminoalkyl, (di)alkylaminoaryl, (di)arylaminomalkyl, alkylarylaminomalkyl or alkylarylaminomaryl, it being possible for the aryl radicals to be substituted,

in which at least one olefinically unsaturated monomer ii) corresponds to the formula IIb,



in which R^6 is alkyl, aryl, alkylaryl, arylalkyl, alkoxyalkyl, aryloxyalkyl, alkoxyaryl, hydroxyalkyl, (di)alkylaminoalkyl, (di)alkylaminoaryl, (di)arylaminominoalkyl, alkylarylaminoalkyl or alkylarylaminoaryl, it being possible for the aryl radicals to be substituted,
and

c) optionally additional additives,

which process comprises forming an aqueous solution of the component b), and optionally additional additives, dissolving the components a) and, if appropriate, c), and optionally additional additives, in one or more water-miscible organic solvents, mixing the solutions of the components with one another and obtaining the active compound formulation in dispersed form by introduction of energy, and optionally subsequently removing the solvents in the conventional way to the greatest possible extent.

Claim 47 (New): The process according to claim 46 wherein the at least one active compound is pyraclostrobin.

Claim 48 (New): A process for combating harmful fungi, which comprises treating the harmful fungi, their habitat or the plants, surfaces, materials or spaces to be kept free therefrom with an effective amount of a formulation according to claim 24.

Claim 49 (New): An active compound formulation comprising pyraclostrobin obtained by a process for the preparation of aqueous dispersions which process comprises bringing the active compound formulation according to claim 24, wherein the at least one active compound is pyraclostrobin, if appropriate with addition of one or more additives, into contact with an aqueous system and conventionally dispersing, wherein the average particle diameter, determined by quasielastic light scattering, is less than 1 micrometer,

Claim 50 (New): The active compound formulation of claim 49 wherein the average particle diameter, determined by quasielastic light scattering, is less than 300 nanometers.

Claim 51 (New): The active compound formulation of claim 49 wherein the average particle diameter, determined by quasielastic light scattering, is less than 100 nanometers.

Claim 52 (New): An active compound formulation comprising pyraclostrobin obtained by a process for the preparation of an active compound formulation according to claim 24, wherein the at least one active compound is pyraclostrobin, which process comprises dissolving the components a) and b) and if appropriate c), and optionally additional additives, separately from one another, in identical or different organic solvents and mixing the solutions with one another or preparing a combined solution of the components a) and b) and if appropriate c), and optionally additional additives, by presenting one of the components dissolved in an organic solvent, adding the additional components and dissolving, and optionally subsequently removing the solvent in a conventional way to the greatest possible extent, wherein the average particle diameter, determined by quasielastic light scattering, is less than 1 micrometer,

Claim 53 (New): The active compound formulation of claim 52 wherein the average particle diameter, determined by quasielastic light scattering, is less than 300 nanometers.

Claim 54 (New): The active compound formulation of claim 52 wherein the average particle diameter, determined by quasielastic light scattering, is less than 100 nanometers.

Claim 55 (New): An active compound formulation comprising pyraclostrobin obtained by a process for the preparation of an active compound formulation according to claim 24, wherein the at least one active compound is pyraclostrobin, which process comprises forming an aqueous solution of the component b), and optionally additional additives, dissolving the components a) and, if appropriate, c), and optionally additional additives, in one or more water-miscible organic solvents, mixing the solutions of the components with one another and obtaining the active compound formulation in dispersed form by introduction of energy, and optionally subsequently removing the solvents in the

conventional way to the greatest possible extent, wherein the average particle diameter, determined by quasielastic light scattering, is less than 1 micrometer,

Claim 56 (New): The active compound formulation of claim 55 wherein the average particle diameter, determined by quasielastic light scattering, is less than 300 nanometers.

Claim 57 (New): The active compound formulation of claim 55 wherein the average particle diameter, determined by quasielastic light scattering, is less than 100 nanometers.